

# ExxonMobil™ LDPE LD 143 Series

## Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LD 143 Series are homopolymer packaging film resins with excellent clarity and good stiffness. LD 143 resins are suitable for processing in either blown or cast film equipment. In blown film equipment LD 143 resins can be drawn down to 1.0 mil.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>LD 143.26: Antiblock: 1500 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes</li> <li>LD 143.DJ: Antiblock: 1500 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Blend Partner</li> <li>Cast Film</li> <li>Display Packaging Film</li> <li>Food Packaging</li> <li>Form Fill And Seal Packaging</li> <li>High Clarity Film</li> <li>Lamination Film</li> <li>Light Duty Shrink Film</li> <li>Mail Bag</li> <li>Produce Bags</li> <li>Textile Packaging</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>06/17/2020</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.923 g/cm <sup>3</sup>	0.923 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	2.1 g/10 min	2.1 g/10 min	ASTM D1238
Peak Melting Temperature	230 °F	110 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	203 °F	95.0 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1500 psi	11 MPa	ASTM D882
Tensile Strength at Yield TD	1600 psi	11 MPa	ASTM D882
Tensile Strength at Break MD	3400 psi	24 MPa	ASTM D882
Tensile Strength at Break TD	2700 psi	18 MPa	ASTM D882
Elongation at Break MD	150 %	150 %	ASTM D882
Elongation at Break TD	520 %	520 %	ASTM D882
Secant Modulus MD - 1% Secant	31000 psi	210 MPa	ASTM D882
Secant Modulus TD - 1% Secant	37000 psi	250 MPa	ASTM D882
Dart Drop Impact	90 g	90 g	ASTM D1709A
Elmendorf Tear Strength MD	350 g	350 g	ASTM D1922
Elmendorf Tear Strength TD	160 g	160 g	ASTM D1922
Puncture Force	6 lbf	28 N	ExxonMobil Method
Puncture Energy	3.0 in-lb	0.34 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	74	74	ASTM D2457
Haze	5.9 %	5.9 %	ASTM D1003

### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

### Processing Statement

Film (1.5 mil/38.1 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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